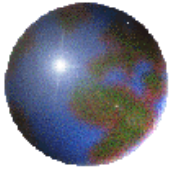


Policy Advisory Committee Presentation

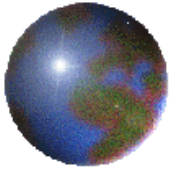
August 12, 1997

The “Snapshot”



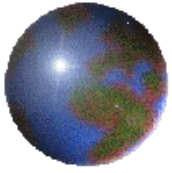
Snapshot

- Purpose
- Process
- Findings
- Tools Used



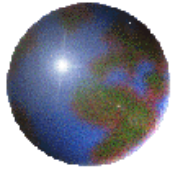
Purpose

- Display existing capabilities for assessing system performance
- Produce a very “rough” picture



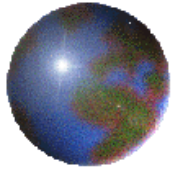
Process

- Emulate federal report
- Plug in latest data (1995)
- Hurry, hurry, hurry



-- Snapshot --
Conditions and
Performance for 1995

- Findings about roadways
- Findings about transit
- Findings about tools



-- Snapshot Findings--

ROADWAYS

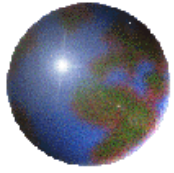
Traffic & congestion

- VMT up 1.3% from 1994
- Congested peak-hour travel on interstates = 70%
- Congested urban freeways (% of total) = 36%, up from 30% in 1987

Pavement -- lane-miles needing immediate rehab doubled from 1992-95

Bridges -- 14% of bridges are deficient

Safety -- fatalities down but improvements now harder to obtain



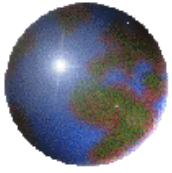
-- *Snapshot Findings*--

TRANSIT

Efficiency -- Buses operate more efficiently (Bay Area heavy rail exception) than other modes

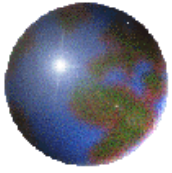
Service Effectiveness -- Rail modes more effective than buses

Cost Effectiveness -- 5-year farebox revenue drop continues, but up 0.5% over 1993/94



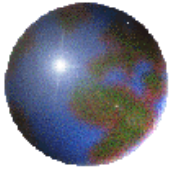
-- Snapshot Findings--

- Some reporting is possible
- Some data sets are detailed
- Data sets are not designed for performance analysis
- Not a view of the full system



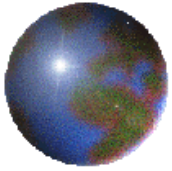
-- Planning Tools --

- MONITORING (observation)
 - What Is There?
 - How Well Is It Working?
- MODELING (prediction)
 - Trends Projections
 - What If? questions



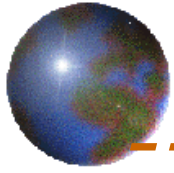
-- Monitoring Tools --

- Roadways
 - HPMS
 - TASAS
 - Traffic volumes & congestion
 - Pavement
 - Bridges
- Transit
 - Controller's office
 - US Department of Transportation



-- Monitoring Tools --

- Roadways
 - HPMS (Hwy Performance)
 - What - Roadway extent and use by functional class
 - Why---Federal mandate
 - How---Annual Reports to US DOT
 - Purpose--Justify decisions, projects
 - Example
 - “Number of lane-miles of arterials in Goldrush County in 1995”



-- *Monitoring Tools* --

ROADWAYS

TASAS (traffic accident surveillance)

What---Roadway add-on to CHP accident statistics

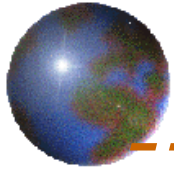
Why---Federal mandate

How---Annual & special reports

Purpose---Justify decisions, projects

Example:

"Number of fatal car crashes in right lanes in Goldrush County in 1995"



-- *Monitoring Tools* --

ROADWAYS

Traffic Volumes (Traffic Census)

What---Traffic counts

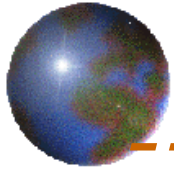
Why---Federal mandate

How---Annual reports

Purpose---Justify decisions, projects

Example:

"Total traffic volume between Post Mile #6
and Post Mile #7 on State Highway
number 'n' in 1995"



-- *Monitoring Tools* --

ROADWAYS

Congestion (Tachograph runs)

What---Traffic jam magnitude, severity, duration

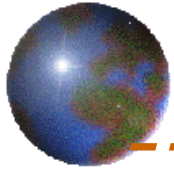
Why---Highway operations need

How---Biennial & special reports

Purpose---Justify decisions, projects

Example:

“Vehicle-hours of daily delay on State Highways
in Goldrush County in 1995”



-- *Monitoring Tools* --

ROADWAYS

Pavement monitoring

What---Survey of pavement condition

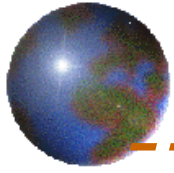
Why---Highway maintenance need

How---Biennial "State of the Pavement" report

Purpose---Justify decisions, projects

Example:

"Number of structurally damaged lane-miles of
State Highway "n" in 1995"



-- *Monitoring Tools* --

ROADWAYS

Bridges

What---Survey of condition of bridges

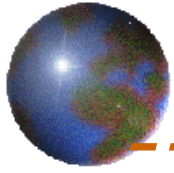
Why---Federal mandate

How---Biennial bridge inspections

Purpose---Justify decisions, projects

Example:

"Number of deficient bridges on
State Highway 'n' in 1995"



-- *Monitoring Tools* --

TRANSIT

State Controller's Office

What---Financial data from recipients/distributees of
Transportation Development Act of 1971

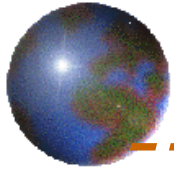
Why---PUC & Government Code mandate

How---Annual reports

Purpose---Ensure proper use of tax dollars

Example:

"Fares collected from motor buses operated
by Transit Provider 'x' in 1995"



-- *Monitoring Tools* --

TRANSIT

U. S. Dept. of Transportation

What---Financial data from grantees of federal transit funds in urban areas

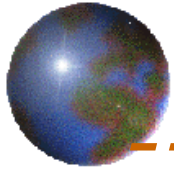
Why---Federal mandate

How---Annual "Summaries and Trends" report

Purpose---Ensure proper use of tax dollars

Example:

"Number of passenger trips per vehicle revenue mile in Urban Area 'y' in 1995"



-- *Modeling Tools* --

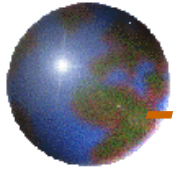
TRENDS PROJECTION

SYSTEM PLANNING

MVSTAF

WHAT IF? QUESTIONS

ITMS



-- *Modeling Tools/Trends* --

SYSTEM PLANNING

What---Response to trends defined by others
(demographics, traffic, economics)

Why---State and federal mandates

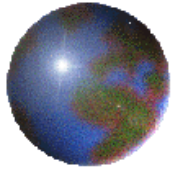
How

- Corridor/route concepts lead to list of projects
- Benefit/cost analysis of proposed projects to choose projects that will be funded

Purpose---Justify decisions, projects

Example:

“List of roadway improvements
approved for Goldrush County ”



-- Modeling Tools/Trends --

MVSTAF

What---Compilation of trends defined by others
(vehicles, ridership, fuels)

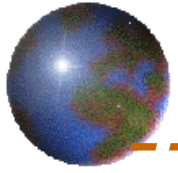
Why---Needed for planning, budgeting

How---Annual report

Purpose---Input to travel, air quality, energy
models

Example:

"Percent change in gasoline consumption
in Goldrush County since..."



-- *Modeling Tools/What if* --

ITMS

What

- Planning decision support tool
- Performance measures
 - mobility, economic, financial, environmental, safety

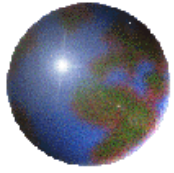
Why---Federal mandate

How---Project planning software

Purpose---Justify decisions, projects

Example:

"Throughput of people in Corridor 'z' if new HOV lane and light rail line are built by 2012."



NEXT STEPS

- Regional performance measure assessments
- Baseline go/no go decisions

When to start

What content